

Byron D Tapley

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193
papers

12,170
citations

52
h-index

108
g-index

196
ext. papers

13,619
ext. citations

5.5
avg, IF

6.26
L-index

#	Paper	IF	Citations
193	The gravity recovery and climate experiment: Mission overview and early results. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	1725
192	GRACE measurements of mass variability in the Earth system. <i>Science</i> , 2004 , 305, 503-5	33.3	1606
191	GGM02 [An improved Earth gravity field model from GRACE. <i>Journal of Geodesy</i> , 2005 , 79, 467-478	4.5	443
190	High-resolution CSR GRACE RL05 mascons. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7547-7569	3.569	429
189	Variations in the Earth's oblateness during the past 28 years. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		349
188	Secular variation of Earth's gravitational harmonic J2 coefficient from Lageos and nontidal acceleration of Earth rotation. <i>Nature</i> , 1983 , 303, 757-762	50.4	314
187	Adaptive sequential estimation with unknown noise statistics. <i>IEEE Transactions on Automatic Control</i> , 1976 , 21, 520-523	5.9	304
186	Satellite gravity measurements confirm accelerated melting of Greenland ice sheet. <i>Science</i> , 2006 , 313, 1958-60	33.3	294
185	Deceleration in the Earth's oblateness. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 740-747	3.6	285
184	Contributions of GRACE to understanding climate change. <i>Nature Climate Change</i> , 2019 , 5, 358-369	21.4	260
183	Accelerated Antarctic ice loss from satellite gravity measurements. <i>Nature Geoscience</i> , 2009 , 2, 859-862	18.3	225
182	The Joint Gravity Model 3. <i>Journal of Geophysical Research</i> , 1996 , 101, 28029-28049		204
181	Precision orbit determination for TOPEX/POSEIDON. <i>Journal of Geophysical Research</i> , 1994 , 99, 24383		183
180	Anomalous warming in the Indian Ocean coincident with El Niño. <i>Journal of Geophysical Research</i> , 1999 , 104, 3035-3047		182
179	The 2009 exceptional Amazon flood and interannual terrestrial water storage change observed by GRACE. <i>Water Resources Research</i> , 2010 , 46,	5.4	167
178	2005 drought event in the Amazon River basin as measured by GRACE and estimated by climate models. <i>Journal of Geophysical Research</i> , 2009 , 114,		165
177	Variations of the Earth's figure axis from satellite laser ranging and GRACE. <i>Journal of Geophysical Research</i> , 2011 , 116,		159

176	Gravity model development for TOPEX/POSEIDON: Joint Gravity Models 1 and 2. <i>Journal of Geophysical Research</i> , 1994 , 99, 24421		154
175	Contribution of ice sheet and mountain glacier melt to recent sea level rise. <i>Nature Geoscience</i> , 2013 , 6, 549-552	18.3	134
174	GRACE detects coseismic and postseismic deformation from the Sumatra-Andaman earthquake. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	129
173	The SEASAT altimeter data and its accuracy assessment. <i>Journal of Geophysical Research</i> , 1982 , 87, 3179		126
172	Precise orbit determination for the GRACE mission using only GPS data. <i>Journal of Geodesy</i> , 2006 , 80, 322-331	4.5	113
171	Patagonia Icefield melting observed by Gravity Recovery and Climate Experiment (GRACE). <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	110
170	Temporal variations in low degree zonal harmonics from Starlette orbit analysis. <i>Geophysical Research Letters</i> , 1989 , 16, 393-396	4.9	108
169	Antarctic mass rates from GRACE. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	100
168	Large scale ocean circulation from the GRACE GGM01 Geoid. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	96
167	Fundamentals of Orbit Determination 2004 , 159-284		90
166	GPS Radio Occultation: Results from CHAMP, GRACE and FORMOSAT-3/COSMIC. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009 , 20, 35	1.8	81
165	Seasonal global water mass budget and mean sea level variations. <i>Geophysical Research Letters</i> , 1998 , 25, 3555-3558	4.9	79
164	Station coordinates, baselines, and Earth rotation from LAGEOS laser ranging: 1976-1984. <i>Journal of Geophysical Research</i> , 1985 , 90, 9235		77
163	Recent La Plata basin drought conditions observed by satellite gravimetry. <i>Journal of Geophysical Research</i> , 2010 , 115,		76
162	Determination of long-term changes in the Earth's gravity field from satellite laser ranging observations. <i>Journal of Geophysical Research</i> , 1997 , 102, 22377-22390		76
161	Long-period ocean heat storage rates and basin-scale heat fluxes from TOPEX. <i>Journal of Geophysical Research</i> , 1997 , 102, 10525-10533		72
160	Accuracy assessment of the large-scale dynamic ocean topography from TOPEX/POSEIDON altimetry. <i>Journal of Geophysical Research</i> , 1994 , 99, 24605		72
159	Geographically correlated orbit error and its effect on satellite altimetry missions. <i>Journal of Geophysical Research</i> , 1985 , 90, 11817		72

158	Precise accelerometry onboard the GRACE gravity field satellite mission. <i>Advances in Space Research</i> , 2008 , 42, 1414-1423	2.4	70
157	Low degree gravitational changes from GRACE: Validation and interpretation. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	70
156	Reducing errors in the GRACE gravity solutions using regularization. <i>Journal of Geodesy</i> , 2012 , 86, 695-711	4.5	68
155	Determination of the ocean circulation using Geosat altimetry. <i>Journal of Geophysical Research</i> , 1990 , 95, 3163		68
154	Long-term groundwater storage change in Victoria, Australia from satellite gravity and in situ observations. <i>Global and Planetary Change</i> , 2016 , 139, 56-65	4.2	66
153	Alaskan mountain glacial melting observed by satellite gravimetry. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 368-378	5.3	66
152	Antarctic regional ice loss rates from GRACE. <i>Earth and Planetary Science Letters</i> , 2008 , 266, 140-148	5.3	65
151	Determination of ocean tides from the first year of TOPEX/POSEIDON altimeter measurements. <i>Journal of Geophysical Research</i> , 1994 , 99, 24809		64
150	Long-term Caspian Sea level change. <i>Geophysical Research Letters</i> , 2017 , 44, 6993-7001	4.9	63
149	Interannual variability of Greenland ice losses from satellite gravimetry. <i>Journal of Geophysical Research</i> , 2011 , 116,		63
148	Robust estimation of systematic errors of satellite laser range. <i>Journal of Geodesy</i> , 1999 , 73, 345-349	4.5	62
147	A comparison of coincident GRACE and ICESat data over Antarctica. <i>Journal of Geodesy</i> , 2009 , 83, 1051-1060	4.6	58
146	Seasonal variations in low degree zonal harmonics of the Earth's gravity field from satellite laser ranging observations. <i>Journal of Geophysical Research</i> , 1999 , 104, 2667-2681		58
145	Variations in the rotation of the Earth. <i>Science</i> , 1984 , 224, 957-61	33.3	58
144	Rapid ice melting drives Earth's pole to the east. <i>Geophysical Research Letters</i> , 2013 , 40, 2625-2630	4.9	57
143	The SEASAT altimeter wet tropospheric range correction. <i>Journal of Geophysical Research</i> , 1982 , 87, 3213		56
142	Seasonal global mean sea level change from satellite altimeter, GRACE, and geophysical models. <i>Journal of Geodesy</i> , 2005 , 79, 532-539	4.5	55
141	Impact of short period, non-tidal, temporal mass variability on GRACE gravity estimates. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	52

140	Variations of global mesoscale eddy energy observed from Geosat. <i>Journal of Geophysical Research</i> , 1990 , 95, 17865		50
139	Comparison of several numerical optimization methods. <i>Journal of Optimization Theory and Applications</i> , 1967 , 1, 1-32	1.6	50
138	Hydrological and oceanic excitations to polar motion and length-of-day variation. <i>Geophysical Journal International</i> , 2000 , 141, 149-156	2.6	49
137	Radial, transverse and normal satellite position perturbations due to the geopotential. <i>Celestial Mechanics</i> , 1987 , 40, 409-421		49
136	Dynamic orbit determination using GPS measurements from TOPEX/POSEIDON. <i>Geophysical Research Letters</i> , 1994 , 21, 2179-2182	4.9	48
135	Hydrological and oceanic effects on polar motion from GRACE and models. <i>Journal of Geophysical Research</i> , 2010 , 115,		47
134	The accuracy and applications of satellite altimetry. <i>Geophysical Journal International</i> , 1995 , 121, 321-336	6.6	45
133	Seasonal sea level change from TOPEX/Poseidon observation and thermal contribution. <i>Journal of Geodesy</i> , 2000 , 73, 638-647	4.5	44
132	Error Analysis of a Low-Low Satellite-to-Satellite Tracking Mission. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 1100-1106	2.1	43
131	Long-term and seasonal Caspian Sea level change from satellite gravity and altimeter measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 2274	3.6	40
130	The understanding of length-of-day variations from satellite gravity and laser ranging measurements. <i>Geophysical Journal International</i> , 2011 , 184, 651-660	2.6	40
129	Combination of TOPEX/POSEIDON data with a hydrographic inversion for determination of the oceanic general circulation and its relation to geoid accuracy. <i>Geophysical Journal International</i> , 1997 , 128, 708-722	2.6	39
128	Lageos laser ranging contributions to geodynamics, geodesy, and orbital dynamics. <i>Geodynamic Series</i> , 1993 , 147-173		39
127	Coseismic and postseismic deformation of the 2011 Tohoku-Oki earthquake constrained by GRACE gravimetry. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	37
126	Geocenter Variations from Analysis of SLR Data. <i>International Association of Geodesy Symposia</i> , 2013 , 19-25	0.8	37
125	On the use of tide gauges to determine altimeter drift. <i>Journal of Geophysical Research</i> , 1998 , 103, 12885-12896		36
124	Circulation from a joint gravity field solution determination of the general ocean. <i>Geophysical Research Letters</i> , 1988 , 15, 1109-1112	4.9	36
123	Long-period perturbations in satellite orbit and tide solution. <i>Journal of Geophysical Research</i> , 1990 , 95, 8723		34

122	Statistical Orbit Determination Theory. <i>Astrophysics and Space Science Library</i> , 1973 , 396-425	0.3	34
121	Determination of the gravitational coefficient of the Earth from near-Earth satellites. <i>Geophysical Research Letters</i> , 1989 , 16, 271-274	4.9	33
120	Comparison of VLBI and SLR geocentric site coordinates. <i>Geophysical Research Letters</i> , 1991 , 18, 231-234	4.9	33
119	Polar motion measurements: subdecimeter accuracy verified by intercomparison. <i>Science</i> , 1985 , 229, 1259-61	33.3	30
118	Seasat altimeter calibration: initial results. <i>Science</i> , 1979 , 204, 1410-2	33.3	29
117	Autonomous Navigation of Global Positioning System Satellites Using Cross-Link Measurements. <i>Journal of Guidance, Control, and Dynamics</i> , 1998 , 21, 321-327	2.1	28
116	The GPS flight experiment on TOPEX/POSEIDON. <i>Geophysical Research Letters</i> , 1994 , 21, 2171-2174	4.9	28
115	Neutral Density Measurements from the Gravity Recovery and Climate Experiment Accelerometers. <i>Journal of Spacecraft and Rockets</i> , 2007 , 44, 1220-1225	1.5	27
114	Precise orbit determination for GRACE using accelerometer data. <i>Advances in Space Research</i> , 2006 , 38, 2131-2136	2.4	27
113	Jason-1 Precision Orbit Determination by Combining SLR and DORIS with GPS Tracking Data. <i>Marine Geodesy</i> , 2004 , 27, 319-331	1.2	27
112	Accurate measurement of mean sea level changes by altimetric satellites. <i>Journal of Geophysical Research</i> , 1986 , 91, 11775		27
111	Quantification of Ocean Mass Change Using Gravity Recovery and Climate Experiment, Satellite Altimeter, and Argo Floats Observations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 10,212-10,225	3.6	26
110	Measuring heat storage changes in the equatorial Pacific: A comparison between TOPEX altimetry and Tropical Atmosphere-Ocean buoys. <i>Journal of Geophysical Research</i> , 1998 , 103, 18591-18597		25
109	Evaluation of the SEASAT altimeter time tag bias. <i>Journal of Geophysical Research</i> , 1982 , 87, 3239		25
108	Tidal deceleration of the Moon's mean motion. <i>Geophysical Journal International</i> , 1992 , 108, 401-409	2.6	24
107	A new assessment of long-wavelength gravitational variations. <i>Journal of Geophysical Research</i> , 2000 , 105, 16271-16277		23
106	Precision orbit determination for the Geosat Exact Repeat Mission. <i>Journal of Geophysical Research</i> , 1990 , 95, 2887		23
105	Canonical transformation applications to optimal trajectory analysis.. <i>AIAA Journal</i> , 1969 , 7, 394-399	2.1	23

104	Solar influence on satellite motion near the stable earth-moon libration points. <i>AIAA Journal</i> , 1964 , 2, 728-732	2.1	23
103	Geocenter variations derived from GPS tracking of the GRACE satellites. <i>Journal of Geodesy</i> , 2009 , 83, 895-901	4.5	22
102	Orbit determination in the presence of unmodeled accelerations. <i>IEEE Transactions on Automatic Control</i> , 1973 , 18, 369-373	5.9	22
101	Improved constraints on seismic source parameters of the 2011 Tohoku earthquake from GRACE gravity and gravity gradient changes. <i>Geophysical Research Letters</i> , 2014 , 41, 1929-1936	4.9	21
100	Simulation of Dual One-Way Ranging Measurements. <i>Journal of Spacecraft and Rockets</i> , 2003 , 40, 419-425	5	19
99	CASA UNO GPS orbit and baseline experiments. <i>Geophysical Research Letters</i> , 1990 , 17, 643-646	4.9	19
98	An extended canonical perturbation method. <i>Celestial Mechanics</i> , 1973 , 7, 77-90		19
97	Vegetation health: Nature's climate monitor. <i>Advances in Space Research</i> , 1985 , 5, 371-377	2.4	18
96	Interannual mean sea level change and the Earth's water mass budget. <i>Geophysical Research Letters</i> , 2000 , 27, 3073-3076	4.9	17
95	Trajectory optimization using regularized variables.. <i>AIAA Journal</i> , 1969 , 7, 1010-1017	2.1	17
94	Global Ocean Mass Change From GRACE and GRACE Follow-On and Altimeter and Argo Measurements. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090656	4.9	17
93	Oceanic effects on polar motion determined from an ocean model and satellite altimetry: 1993-2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		16
92	Comparison of Earth rotation as inferred from radio interferometric, laser ranging and astrometric observations. <i>Nature</i> , 1983 , 302, 509-511	50.4	16
91	Optimal solutions of unobservable orbit determination problems. <i>Celestial Mechanics</i> , 1988 , 44, 339-363		15
90	First results from the GPS atmosphere sounding experiment TOR aboard the TerraSAR-X satellite. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6687-6699	6.8	14
89	Distribution of Reynolds stress carried by mesoscale variability in the Antarctic Circumpolar Current. <i>Geophysical Research Letters</i> , 1992 , 19, 1201-1204	4.9	14
88	Analysis of earth rotation solution from Starlette. <i>Journal of Geophysical Research</i> , 1989 , 94, 10167-10174		14
87	Large-scale mass redistribution in the oceans, 1993-2001. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	13

86	Statistics of geostrophic turbulence in the southern ocean from satellite altimetry and numerical models. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 98, 599-613	3.3	13
85	Basin-Scale River Runoff Estimation From GRACE Gravity Satellites, Climate Models, and In Situ Observations: A Case Study in the Amazon Basin. <i>Water Resources Research</i> , 2020 , 56, e2020WR028032	5.4	13
84	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018 , 6, 80-102	7.9	13
83	Reduction of geoid gradient error in ocean variability from satellite altimetry. <i>Marine Geodesy</i> , 1998 , 21, 25-39	1.2	12
82	Chapter 10 Applications to Geodesy. <i>International Geophysics</i> , 2001 , 69, 371-xxviii		12
81	The SEASAT altimeter wet tropospheric range correction revisited. <i>Marine Geodesy</i> , 1984 , 8, 221-248	1.2	12
80	Iteration procedures for indirect trajectory optimization methods.. <i>Journal of Spacecraft and Rockets</i> , 1968 , 5, 321-327	1.5	12
79	Improved Quantification of Global Mean Ocean Mass Change Using GRACE Satellite Gravimetry Measurements. <i>Geophysical Research Letters</i> , 2019 , 46, 13984-13991	4.9	12
78	Dynamical Model Compensation for Near-Earth Satellite Orbit Determination. <i>AIAA Journal</i> , 1975 , 13, 343-349	2.1	11
77	Monitoring of Changes in Global Mean Sea Level Using Geosat Altimeter. <i>Geophysical Monograph Series</i> , 2013 , 167-180	1.1	10
76	The Tracking, Occultation and Ranging (TOR) instrument onboard TerraSAR-X and on TanDEM-X 2007 ,		10
75	A simulation study of the errors of omission and commission for GRACE RL01 gravity fields. <i>Journal of Geodesy</i> , 2006 , 80, 341-351	4.5	10
74	Satellite laser ranging and its applications. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1985 , 37, 247-261	1.1	10
73	Sequential estimation of the state and the observation-error covariance matrix. <i>AIAA Journal</i> , 1971 , 9, 212-217	2.1	10
72	Comparison of Linear and Riccati Equations Used to Solve Optimal Control Problems. <i>AIAA Journal</i> , 1972 , 10, 1154-1159	2.1	10
71	Surface Force Modeling for Precision Orbit Determination. <i>Geophysical Monograph Series</i> , 2013 , 111-124	1.1	9
70	Geodynamic results from Starlette orbit analysis. <i>Geodynamic Series</i> , 1993 , 175-190		9
69	Equivalence of the generalized Lie-Hori method and the method of averaging. <i>Celestial Mechanics</i> , 1984 , 33, 1-20		9

68	Improved source parameter constraints for five undersea earthquakes from north component of GRACE gravity and gravity gradient change measurements. <i>Earth and Planetary Science Letters</i> , 2016 , 443, 118-128	5.3	9
67	Transformation between SLR/VLBI and WGS-84 reference frames. <i>Bulletin Geodesique</i> , 1995 , 69, 61-72		8
66	Long-period variations in gravity field caused by mantle anelasticity. <i>Journal of Geophysical Research</i> , 1996 , 101, 11243-11248		8
65	Density models for the upper atmosphere. <i>Celestial Mechanics</i> , 1979 , 20, 271-295		8
64	High-frequency signal and noise estimates of CSR GRACE RL04. <i>Journal of Geodesy</i> , 2012 , 86, 1165-1177	4.5	7
63	Regularization and the computation of optimal trajectories. <i>Celestial Mechanics</i> , 1970 , 2, 319-333		7
62	Earth's Energy Imbalance Measured From Space. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 32-45	8.1	6
61	Correction to "Variations in the Earth's oblateness during the past 28 years" <i>Journal of Geophysical Research</i> , 2005 , 110,		6
60	Geophysical contributions to satellite nodal residual variation. <i>Journal of Geophysical Research</i> , 1999 , 104, 23237-23244		6
59	The consistency of the scale of the terrestrial reference frames estimated from SLR and VLBI data. <i>Geodynamic Series</i> , 1993 , 113-120		6
58	Polar motion and Earth rotation. <i>Reviews of Geophysics</i> , 1983 , 21, 569	23.1	6
57	Square-root variable-metric methods for minimization. <i>Journal of Optimization Theory and Applications</i> , 1977 , 21, 251-259	1.6	6
56	Lunar orbit determination in the presence of unmodeled accelerations. <i>Celestial Mechanics</i> , 1974 , 9, 191-211		6
55	Further results on solar influenced libration point motion.. <i>AIAA Journal</i> , 1965 , 3, 1954-1956	2.1	6
54	Station Positions and Plate Motion from Lageos Long ARC LLA8903. <i>International Association of Geodesy Symposia</i> , 1990 , 1-10	0.8	6
53	High-Frequency Noise in the Gravity Recovery and Climate Experiment Intersatellite Ranging System. <i>Journal of Spacecraft and Rockets</i> , 2012 , 49, 1163-1173	1.5	5
52	Optimal Frequency Configuration for Dual One-Way Ranging Systems. <i>Journal of Spacecraft and Rockets</i> , 2005 , 42, 749-751	1.5	5
51	Rate of change of the Quincy-Monument Peak baseline from a translocation analysis of LAGEOS Laser Range Data. <i>Geophysical Research Letters</i> , 1989 , 16, 539-542	4.9	5

50	A sequential method for filtering satellite altimeter measurements. <i>Journal of Geophysical Research</i> , 1979 , 84, 4061		5
49	Generalized Random Processes: A Theory and the White Gaussian Process. <i>SIAM Journal on Control and Optimization</i> , 1975 , 13, 719-735		5
48	Optimization of non-linear systems with inequality constraints explicitly containing the control. <i>International Journal of Control</i> , 1970 , 12, 497-510	1.5	5
47	First results from the GPS atmosphere sounding experiment TOR aboard the TerraSAR-X satellite		5
46	Gravity model determination from the GRACE mission. <i>Journal of the Astronautical Sciences</i> , 2008 , 56, 273-285	1.1	4
45	A low cost Mercury orbiter mission. <i>Acta Astronautica</i> , 1995 , 35, 445-454	2.9	4
44	Estimation of unmodeled forces on a lunar satellite. <i>Celestial Mechanics</i> , 1975 , 12, 409-424		4
43	Coordinate system influence on the regularized trajectory optimization problem. <i>Journal of Spacecraft and Rockets</i> , 1971 , 8, 15-20	1.5	4
42	Comparison of Statistical Orbit Determination Methods. <i>AIAA Journal</i> , 1974 , 12, 1465-1466	2.1	4
41	Numerical Studies of Solar Influenced Particle Motion Near the Triangular Earth-Moon Libration Points 1970 , 128-142		4
40	Estimation of non-gravitational acceleration difference between two co-orbiting satellites using single accelerometer data. <i>Journal of Geodesy</i> , 2015 , 89, 537-550	4.5	3
39	Geocenter motion time series derived from GRACE GPS and LAGEOS observations. <i>Journal of Geodesy</i> , 2019 , 93, 1931-1942	4.5	3
38	Thermosteric Effects on Interannual and Long-term Global Mean Sea Level Changes. <i>Journal of Geodesy</i> , 2006 , 80, 240-247	4.5	3
37	Non-Tidal Oceanic Contribution to the Variation of the Earth's Oblateness. <i>Chinese Journal of Geophysics</i> , 2004 , 47, 484-489		3
36	Polar motion results from Geos 3 laser ranging. <i>Journal of Geophysical Research</i> , 1979 , 84, 3951		3
35	Persistent solar influenced libration point motion.. <i>AIAA Journal</i> , 1968 , 6, 1405-1406	2.1	3
34	Rapid Mass Loss in West Antarctica Revealed by Swarm Gravimetry in the Absence of GRACE. <i>Geophysical Research Letters</i> ,	4.9	3
33	The determination of large-scale sea surface topography and its variations using geosat altimetry. <i>Geophysical Monograph Series</i> , 1994 , 21-32	1.1	3

32	Observed Temporal Variations in the Earth's Gravity Field from 16-year Starlette Orbit Analysis. <i>International Association of Geodesy Symposia</i> , 1992 , 83-91	0.8	3
31	A General Ocean Circulation Model Determined in a Simultaneous Solution with the Earth's Gravity Field. <i>International Association of Geodesy Symposia</i> , 1990 , 158-166	0.8	3
30	Accelerometer Parameterization and the Quality of Gravity Recovery and Climate Experiment Solutions. <i>Journal of Spacecraft and Rockets</i> , 2020 , 57, 740-752	1.5	2
29	Computing the USO frequency instability of GRACE satellites 2010 ,		2
28	The new GRACE gravity mission and its value to exploration 2004 ,		2
27	Formation of surface spherical harmonic normal matrices and application to high-degree geopotential modeling. <i>Journal of Geodesy</i> , 2000 , 74, 359-375	4.5	2
26	A new method for computing the spectrum of the gravitational perturbations on satellite orbits. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1995 , 62, 117-143	1.4	2
25	Multitarget classification and estimation using clustering techniques. <i>Journal of Guidance, Control, and Dynamics</i> , 1990 , 13, 121-127	2.1	2
24	New Method for Propagating the Square Root Covariance Matrix in Triangular Form. <i>AIAA Journal</i> , 1975 , 13, 681-683	2.1	2
23	Estimation of unmodeled forces on a low-thrust space vehicle. <i>Journal of Spacecraft and Rockets</i> , 1975 , 12, 592-598	1.5	2
22	A modified perturbation method for solving optimal control problems with state variable inequality constraints. <i>AIAA Journal</i> , 1971 , 9, 2222-2228	2.1	2
21	Terminal Guidance for Continuous Powered Space Vehicles. <i>AIAA Journal</i> , 1966 , 4, 1683-1684	2.1	2
20	A test for the sign of the second variation.. <i>AIAA Journal</i> , 1967 , 5, 1682-1683	2.1	2
19	The Use of GPS Data for Global Gravity Field Determination. <i>International Association of Geodesy Symposia</i> , 1996 , 42-49	0.8	2
18	Assessment of degree-2 order-1 gravitational changes from GRACE and GRACE Follow-on, Earth rotation, satellite laser ranging, and models. <i>Journal of Geodesy</i> , 2021 , 95, 1	4.5	2
17	Thermospheric Densities from Analysis of 6-Year GRACE Accelerometer Data 2008 ,		1
16	Neutral Density Measurements from the GRACE Accelerometers 2006 ,		1
15	Sequential filtering applied to the determination of tracking station locations. <i>Journal of Geophysical Research</i> , 1975 , 80, 823-831		1

14	Polar Motion from Laser Range Measurements of GEOS-3. <i>Symposium - International Astronomical Union</i> , 1979 , 82, 239-244		1
13	Riccati transformations for control optimization using the second variation 1970 ,		1
12	The computation of optimal control programmes using a modified successive sweep method□ <i>International Journal of Control</i> , 1972 , 15, 465-479	1.5	1
11	The Accuracy Assessment of Precise Orbits Computed from Doppler Tracking Data. <i>Journal of the Astronautical Sciences</i> , 1997 , 45, 451-469	1.1	1
10	Error Assessment of GRACE and GRACE Follow-On Mass Change. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022124	3.6	0
9	Application of Eigenvalue Decomposition in the Parallel Computation of a CHAMP 100x100 Gravity Field 2005 , 115-120		
8	Enhancement of data separability in multisensor-multitarget tracking problems. <i>Journal of Guidance, Control, and Dynamics</i> , 1989 , 12, 938-940	2.1	
7	Digitized global land-sea map and access software. <i>Bulletin Geodesique</i> , 1987 , 61, 311-317		
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